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(54) **Process for the preparation of LMW Heparin.**

(57) A method for production of low molecular weight heparin (LMW-heparin) by enzymatic batch depolymerization of heparin with heparinase wherein heparin is depolymerized to a desired weight average molecular weight by depolymerization to the corresponding number average molecular weight. The method enables depolymerization to a desired weight average molecular weight by measuring the increase in UV-absorption (preferably at 230-235 nm)  $\Delta A_{235}$  and halting the depolymerization when  $\Delta A_{235}$  has reached the calculated value corresponding to the desired number average molecular weight  $M_n$ .